





UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER OF PATENTS AND TRADEMARKS Washington, D.C. 20231 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/147,367	12/09/1998	ULFSCHRODER	REF/SCH29644	1613	
75	590 08/26/2002				
BACON & THOMAS			EXAMINER		
625 SLATERS 4TH FLOOR	LANE	•	KISHORE, GO	GOLLAMUDI S	
ALEXANDRIA, VA 223141176			ART UNIT	PAPER NUMBER	
				THE BRITOINE	
			1615	10	
			DATE MAILED: 08/26/2002	A 1	

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No. **09/147,367**

Applicant(s)

Art Unit **1615**

Schroder

Examiner
Gollamudi Kishore

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period f	or Reply			·			
	DRTENED STATUTORY PERIOD FOR REPLY IS SET	TO EXPIREthr	<i>ree</i> M	IONTH(S) FROM			
	IAILING DATE OF THIS COMMUNICATION. ons of time may be available under the provisions of 37 CFR 1.136 (a). In I	no event however may	a rank ha tim	nety filed after SIX (6) MONTHS from the			
mailing	date of this communication.						
- If NO p	ariod for reply specified above is less than thirty (30) days, a reply within th ariod for reply is specified above, the maximum statutory period will apply a	nd will expire SIX (6) MC	ONTHS from t	he mailing date of this communication.			
	to reply within the set or extended period for reply will, by statute, cause the ly received by the Office later than three months after the mailing date of the	* *					
	patent term adjustment. See 37 CFR 1.704(b).						
Status 1) 💢	Responsive to communication(s) filed on Apr 30, 20	002		· · · · · · · · · · · · · · · · · · ·			
	This action is FINAL . 2b) ☑ This acti						
	Since this application is in condition for allowance e		mattara	procedution as to the morits is			
	closed in accordance with the practice under Ex par	•		•			
	ion of Claims	, .	·				
4) 💢	Claim(s) 64-91			is/are pending in the application.			
4	a) Of the above, claim(s)			is/are withdrawn from consideration.			
5) 🗆	Claim(s)			is/are allowed.			
6) 💢	Claim(s) <u>64-91</u>			is/are rejected.			
7) 🗆				is/are objected to.			
8) 🗌	Claims	are su	ubject to	restriction and/or election requirement.			
Applicat	ion Papers						
9) 🗆	The specification is objected to by the Examiner.						
10)	The drawing(s) filed on is/are	a) accepted	or b)□ o	bjected to by the Examiner.			
	Applicant may not request that any objection to the d	rawing(s) be held	in abeyan	ce. See 37 CFR 1.85(a).			
11)	The proposed drawing correction filed on	is: a)□ appr	roved b) \square disapproved by the Examine	r.		
	If approved, corrected drawings are required in reply t	o this Office actio	n.				
12) 🗆	The oath or declaration is objected to by the Exami	ner.					
Priority	under 35 U.S.C. §§ 119 and 120						
13) 🗌	Acknowledgement is made of a claim for foreign pr	iority under 35 U	J.S.C. § 1	119(a)-(d) or (f).			
a) 🗀	All b)□ Some* c)□ None of:						
1	1. Certified copies of the priority documents have been received.						
2	2. Certified copies of the priority documents have been received in Application No						
3	B. Copies of the certified copies of the priority do application from the International Burea	ocuments have be	een recèi	ved in this National Stage			
*Se	e the attached detailed Office action for a list of the			ved.			
14) 🗌	Acknowledgement is made of a claim for domestic	priority under 35	5 U.S.C. §	3 119(e).			
	The translation of the foreign language provisiona						
15)	Acknowledgement is made of a claim for domestic	priority under 35	5 U.S.C. §	§§ 120 and/or 121.			
Attachme							
1) X Notice of References Cited (PTO-892)		4) Interview Summary (PTO-413) Paper No(s).					
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449) Paper No(s).		_	Notice of Informal Patent Application (PTO-152)				
or □ info	innation Disclosure Statement(s) (P10-1449) Paper No(s).	6) Other:					

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DETAILED ACTION

The request for the extension of time, filing under 1.114 and the preliminary amendment dated 4-30-02 are acknowledged.

Claims included in the prosecution are 64-91.

Claim Rejections - 35 U.S.C. § 112

1. The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

- 2. Claims 64-91 are rejected under 35 U.S.C. 112, first paragraph, as containing subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention. The expression, 'at the most 1% W/W of free acid' now present in the independent claims 64 and 65 has no support in the specification as originally filed and therefore, deemed to be new matter.
- 3. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

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4. Claims 64-91 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

On line 3 of claim 64 applicant stipulates that the monoglyceride preparation should have at the most 1 % W/W of free fatty acid; yet in ii) of the same claim recite a fatty acid. It is unclear why the same compound is excluded and then added again. It is essential that the amounts of the fatty acids be recited in view of this. Similar is the case with claim 65. Furthermore, since the claims recite 'consisting essentially of' they should recite specific components and not a vague expression such as 'a monoglyceride preparation'.

Claim 90 is drawn to enhancing an antibody response to an antigen by administering the adjuvant of claims 64 and 65. However, claims 64 and 65 do not recite any antigen. They recite only the adjuvant composition.

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Claim Rejections - 35 U.S.C. § 102

- 5. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:
 - A person shall be entitled to a patent unless --
 - (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 6. Claims 64-76, 78-82 and 84-89 are rejected under 35 U.S.C. 102(b) as being anticipated by Isaacs (4,997,851).

Isaacs discloses a composition containing monoglycerides and free fatty acids (note the abstract, columns 9-12 and claims). One of the forms for the composition is an emulsion and therefore, the presence of water is implicit. The reference teaches in vitro studies wherein the composition is incubated with a virus (Table 3) and therefore, meets the requirements of instant claims which recite the presence of antigen.

Claim Rejections - 35 USC § 103

- 7. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

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8. Claims 64-91 are rejected under 35 U.S.C. 103(a) as being unpatentable over WO 93/06921 by itself in combination with Amselem (5,716,637), Wright (5,730,989), Koga (5,352,450), Carrano (5,739,118) individually or in combination.

As pointed out before, WO discloses formulations containing monoglyceride preparation. The preparation contained 98.8% monoglycerides and 1 % free fatty acids. The composition is for the delivery of vaccines (note page 20, lines 25-30, pages 45-47 and claims). What is lacking in WO is the addition of a fatty acid in addition to what is already present in the monoglyceride preparations.

Amselem teaches oleic acid as one of the components for the delivery of vaccine formulations (note the examples).

Wright while teaching oral vaccine formulations teaches oleic acid as one of the components (note col. 4, lines 11-22).

Koga similarly teaches oleic acid as one of the components in vaccine formulations for preventing dental caries (col. 20, line 59 et seq.).

Carrano teaches oleic acid is a preferred as a genetic vaccine facilitator (col. 14, lines 6-51).

It would have been obvious to one of ordinary skill in the art to add oleic acid in the formulations of WO with the expectation of obtaining at least an additive effect or the best possible results since the references Amselem, Wright, Koga and Carrano each teach that oleic acid is used in vaccine preparations as an adjuvant.

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9. Claims 64-91 are rejected under 35 U.S.C. 103(a) as being unpatentable over WO 93/06921 by itself in combination with Amselem (5,716,637), Wright (5,730,989), Koga (5,352,450), Carrano (5,739,118) individually or in combination as set forth above, further in view of Isaacs cited above.

The teachings of WO, Amselem, Koga, Wright and Carrano have been discussed above. As discussed above, Isaacs teaches the effectiveness of the combination of a monoglyceride and a fatty acid against viruses.

One of ordinary skill in the art would be further motivated to add a fatty acid to the formulations of WO since fatty acids are also effective against the viruses as taught by Isaacs.

Applicant's arguments have been fully considered, but are deemed to be moot in view of these new rejections.

10. Any inquiry concerning this communication or earlier communications from the examiner should be directed to *G.S. Kishore* whose telephone number is (703) 308-2440.

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The examiner can normally be reached on Monday-Thursday from 6:30 A.M. to 4:00 P.M. The examiner can also be reached on alternate Fridays.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, T.K. Page, can be reached on (703)308-2927. The fax phone number for this Group is (703)305-3592.

Communications via Internet e-mail regarding this application, other than those under 35 U.S.C. 132 or which otherwise require a signature, may be used by the applicant and should be addressed to [thurman.page@uspto.gov].

All Internet e-mail communications will be made of record in the application file. PTO employees do not engage in Internet communications where there exists a possibility that sensitive information could be identified or exchanged unless the record includes a properly signed express waiver of the confidentiality requirements of 35 U.S.C. 122. This is more clearly set forth in the Interim Internet Usage Policy published in the Official Gazette of the Patent and Trademark on February 25, 1997 at 1195 OG 89.

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Any inquiry of a general nature or relating to the status of this application should be directed to the Group receptionist whose telephone number is (703)308-1235.

Gollamudi S. Kishore, Ph. D

Primary Examiner

Group 1600

gsk

August 15, 2002